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second supplement continues the literature of 1899–1904 in reference to dicotyledons from Euphorbiaceae to Sapotaceae.—J. M. C.

Flora of Winneshiek Co., Iowa.—Shimek⁷ has published an account of the plants of one of the counties of Iowa, prefacing the annotated list by a discussion of the forest problem, ornamental plants, forage plants, weeds, and medicinal plants.—J. M. C.

Eucalyptus.—The eighth part of MAIDEN's⁸ revision of Eucalyptus contains the description, synonymy, range, and affinities of seven species. This series, begun in 1903, now includes twenty-four species.—J. M. C.

Das Pflanzenreich.9—Part 28 contains the group Calceolarieae of Scrophulariaceae. The three genera are Porodittia (r sp.), Jovellana (6 spp.), and Calceolaria (192 spp., with 9 new).—J. M. C.

NOTES FOR STUDENTS

Apogamy and apospory in ferns.—Professor Farmer and Miss Digby have published to their studies of apogamy and apospory in ferns. The forms described are Lastrea pseudo-mas vars. polydactyla Wills, polydactyla Dadds, and cristata apospora Druery; Athyrium Filix-joemina vars. clarissima Jones, clarissima Bolton, and uncoglomeratum Stansfield; and Scolopendrium vulgare var. crispum Drummondae.

In Athyrium Filix-joemina clarissima Jones there is no change in the number of chromosomes in passing from the sporophyte to the gametophyte phase of the life-history; and there is no migration of nuclei from one prothallial cell to another. The embryo arises as a bud upon the gametophyte.

In Athyrium Filix-joemina clarissima Bolton there is no reduction of chromosomes, no true fertilization, no migration of prothallial nuclei, and the embryo develops from an unfertilized egg.

In Athyrium Filix-joemina uncoglomeratum Stansfield the embryo arises in connection with an archegonium, but details were not discovered. The number of chromosomes (about 100) is maintained throughout the life-history and there is no migration of prothallial nuclei.

In Scolopendrium vulgare crispum Drummondae a remarkable condition is described. The number of chromosomes in sporophyte nuclei is about 100, in prothallial nuclei about 70, in archegonial nuclei about 80, and in antheridial

⁷ SHIMEK, B., Flora of Winneshiek County. Iowa Geol. Surv. 16:147-211. 1906.

⁸ MAIDEN, J. H., A critical revision of the genus Eucalyptus. Part VIII. pp. 211-254. pls. 37-40. Sydney: Published by State of New South Wales. 1907. 25. 6d.

⁹ ENGLER, A., Das Pflanzenreich. Heft 28. Scrophulariaceae Antirrhinoideae-Calceolarieae von Fr. Kränzlin. pp. 128. figs. 21 (142). Leipzig: Wilhelm Engelmann. 1907. M6.40.

¹⁰ FARMER, J. BRETLAND, and L. DIGBY, Studies in apogamy and apospory in ferns. Annals of Botany 21:161-199. pls. 16-20. 1907.